

Serial No. 10/805,830

IN THE CLAIMS

Claims 1-3 (canceled).

Claim 4 (new): A paintball gun comprising, in combination:

a gun body;

a gun tube secured to the gun body;

a bolt sleeved inside the gun tube;

a trigger moveable relative to the gun body between an un-pressed position and a shooting position;

a substrate assembled in the gun body for controlling movement of the bolt in the gun tube due to pressing the trigger to shoot a paintball located in the gun tube;

a first infra-red receiver and emitter provided on the gun tube, with the first infra-red receiver and emitter being in an "ON" status when the paintball is located between the first infra-red receiver and emitter, with the first infra-red receiver and emitter being in an "OFF" status when the paintball is not located between the first infra-red receiver and emitter; and

a second infra-red receiver and emitter provided on the gun body relative to the trigger, with the second infra-red receiver and emitter being in an "ON" status when the trigger is in the shooting position and being in an "OFF" status when the trigger is in the un-pressed position, with movement of the bolt in the gun tube being blocked when either of the first and second infra-red receivers and emitters are in the "OFF" position and being allowed when both of the first and second infra-red receivers and emitters are in the "ON" position.

Claim 5 (new): The paintball gun as claimed in claim 4 further comprising, in combination: light-filtration mirrors covering the first infra-red receiver and emitter, with the gun tube having an inner wall, with the first infra-red receiver and emitter located in the inner wall near the bolt.

Claim 6 (new): The paintball gun as claimed in claim 5 further comprising, in combination: a pin body moveable by the trigger, with the pin body having a hole, with the second infra-red receiver and emitter located on opposite sides of the pin body, with the second infra-red receiver and emitter being interconnected through the hole when the trigger is in the shooting position and blocked by the pin body when the trigger is in the un-pressed position.

Claim 7 (new): The paintball gun as claimed in claim 6 further comprising, in combination: fore and rear bundle bodies, with the second infra-red receiver and emitter

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sandwiched between the fore and rear bundle bodies, with the pin body being movably sleeved in the fore and rear bundle bodies intermediate the second infra-red receiver and emitter; and a spring sandwiched between the pin body and the rear bundle body, with the pin body extending through an access hole in the fore bundle body, with the pin body being confined and isolated from outside light by the fore and rear bundle bodies.

Claim 8 (new): The paintball gun as claimed in claim 4 further comprising, in combination: a pin body moveable by the trigger, with the pin body having a hole, with the second infra-red receiver and emitter located on opposite sides of the pin body, with the second infra-red receiver and emitter being interconnected through the hole when the trigger is in the shooting position and blocked by the pin body when the trigger is in the un-pressed position.

Claim 9 (new): The paintball gun as claimed in claim 8 further comprising, in combination: fore and rear bundle bodies, with the second infra-red receiver and emitter sandwiched between the fore and rear bundle bodies, with the pin body being movably sleeved in the fore and rear bundle bodies intermediate the second infra-red receiver and emitter; and a spring sandwiched between the pin body and the rear bundle body, with the pin body extending through an access hole in the fore bundle body, with the pin body being confined and isolated from outside light by the fore and rear bundle bodies.